

JCE228 U.S. PRO  
 10/051460  
 01/22/02

|  |  |  |                             |
|--|--|--|-----------------------------|
| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>09850- 013001 | Application No.<br>10051460 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br>Robert A. Sanderson       |                             |
|  |  | Filing Date<br>1/22/02                 | Group Art Unit<br>3746      |

### U.S. Patent Documents

| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee    | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|------------|-------------|-------|----------|----------------------------|
| (28)             | AA        | 1,194,258     | 08/08/1916 | Walker      |       |          |                            |
| (38)             | AB        | 2,104,391     | 01/1938    | Redrup      | 74    | 50       |                            |
| (38)             | AC        | 2,302,995     | 11/24/1942 | Holmes      | 74    | 60       |                            |
| (38)             | AD        | 2,539,880     | 06/1951    | Wildhaber   | 74    | 60       | 6/26/46                    |
| (38)             | AE        | 4,342,544     | 08/03/1982 | Pere        | 47    | 269      |                            |
| (38)             | AF        | 4,513,630     | 04/1985    | Pere et al. | 74    | 60       |                            |
| (38)             | AG        | RE 15,442     | 09/05/22   | Almen       |       |          |                            |

### Foreign Patent Documents or Published Foreign Patent Applications

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
| (38)             | AH        | 2,271,459       | 11/1973          | France                   |       |          |             | ✓  |
| (38)             | AI        | 2,453,332       | 04/06/1979       | France                   |       |          | X           |    |
| (38)             | AJ        | 2,346,836       | 03/1975          | Germany                  |       |          | X           |    |
| (38)             | AK        | 220594          | 03/1924          | UK                       |       |          |             |    |
| (38)             | AL        | 629318          | 09/1947          | UK                       |       |          |             |    |

### Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|----------|
|                  | AM        |          |
|                  | AN        |          |
|                  | AO        |          |
|                  | AP        |          |

|   |                           |
|---|---------------------------|
| Examiner Signature<br><i>[Signature]</i>  | Date Considered<br>3/4/05 |
| EXAMINER: Initials, citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                           |

**Information Disclosure Statement  
by Applicant**  
(Use several sheets if necessary)

(37 CFR §1.98(b))

Attorney's Docket No.  
09850- 0130012

Application No.

10051460

Applicant  
Robert A. Sanderson

Filing Date 1/24/02

Group Art Unit  
3746**U.S. Patent Documents**

| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|------------|----------|-------|----------|----------------------------|
| (30)             | AA        | 3,877,839     | 04/15/75   | Ifield   | 417   | 217      |                            |
| (30)             | AB        | 4,966,042     | 10/30/90   | Brown    | 24    | 44       |                            |
|                  | AC        |               |            |          |       |          |                            |
|                  | AD        |               |            |          |       |          |                            |
|                  | AE        |               |            |          |       |          |                            |
|                  | AF        |               |            |          |       |          |                            |
|                  | AG        |               |            |          |       |          |                            |
|                  | AH        |               |            |          |       |          |                            |
|                  | AI        |               |            |          |       |          |                            |
|                  | AJ        |               |            |          |       |          |                            |
|                  | AK        |               |            |          |       |          |                            |

**Foreign Patent Documents or Published Foreign Patent Applications**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
| (30)             | AL        | DE 2612270      | 09/22/77         | Germany                  |       |          |             |    |
| (30)             | AM        | GB 651893       | 04/11/51         | Great Britain            |       |          |             |    |
|                  | AN        |                 |                  |                          |       |          |             |    |
|                  | AO        |                 |                  |                          |       |          |             |    |
|                  | AP        |                 |                  |                          |       |          |             |    |

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document   |
|------------------|-----------|--|
| (30)             | AQ        | International Search Report dated September 10, 2000 (App. No. PCT US 00/21150). |
| (30)             | AR        | International Search Report dated September 10, 2000 (App No. PCT US 00/21245).  |
|                  | AS        |  |
|                  | AT        |  |

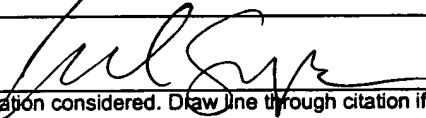
Examiner Signature

Date Considered

3/4/03

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| Substitute Form PTO-1449<br>(Modified)   |           | U.S. Department of Commerce<br>Patent and Trademark Office |                  | Attorney's Docket No.<br>09850- 013001 |       | Application No.<br>10251460 |                            |    |
|--|-----------|--|------------------|--|-------|-----------------------------|----------------------------|----|
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) |           |  |                  | Applicant<br>Robert A. Sanderson       |       |                             |                            |    |
|  |           |  |                  | Filing Date<br>1/22/02                 |       | Group Art Unit<br>3746      |                            |    |
| <b>U.S. Patent Documents</b>   |           |  |                  |  |       |                             |                            |    |
| Examiner Initial   | Desig. ID | Patent Number  | Issue Date       | Patentee                               | Class | Subclass                    | Filing Date If Appropriate |    |
| (38)   | AA        | 1,894,033  | 01/10/33         | Farwell                                |       |                             |                            |    |
| (38)   | AB        | 1,857,656  | 05/10/32         | Oldfield                               |       |                             | 9/26/28                    |    |
| (38)   | AC        | 1,161,152  | 11/23/15         | Nyborg                                 |       |                             | 11/23/15                   |    |
|  | AD        |  |                  |  |       |                             |                            |    |
|  | AE        |  |                  |  |       |                             |                            |    |
|  | AF        |  |                  |  |       |                             |                            |    |
|  | AG        |  |                  |  |       |                             |                            |    |
|  | AH        |  |                  |  |       |                             |                            |    |
| <b>Foreign Patent Documents or Published Foreign Patent Applications</b>   |           |  |                  |  |       |                             |                            |    |
| Examiner Initial   | Desig. ID | Document Number  | Publication Date | Country or Patent Office               | Class | Subclass                    | Translation                |    |
|  |           |  |                  |  |       |                             | Yes                        | No |
| (38)   | AI        | 815,794  | 04/1937          | France                                 |       |                             | X                          |    |
| (38)   | AJ        | 282,125  | 12/1927          | GB                                     |       |                             |                            |    |
|  | AK        |  |                  |  |       |                             |                            |    |
|  | AL        |  |                  |  |       |                             |                            |    |
|  | AM        |  |                  |  |       |                             |                            |    |
|  | AN        |  |                  |  |       |                             |                            |    |
| <b>Other Documents (include Author, Title, Date, and Place of Publication)</b>   |           |  |                  |  |       |                             |                            |    |
| Examiner Initial   | Desig. ID | Document   |                  |  |       |                             |                            |    |
| (38)   | AO        | eCycle Inc. schematic                                      |                  |  |       |                             |                            |    |
|  | AP        |  |                  |  |       |                             |                            |    |
|  | AQ        |  |                  |  |       |                             |                            |    |
|  | AR        |  |                  |  |       |                             |                            |    |
|  | AS        |  |                  |  |       |                             |                            |    |
|  | AT        |  |                  |  |       |                             |                            |    |
|  | AU        |  |                  |  |       |                             |                            |    |
|  | AV        |  |                  |  |       |                             |                            |    |
|  | AW        |  |                  |  |       |                             |                            |    |

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| Examiner Signature<br>  | Date Considered<br>3/4/03 |
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|--|--|--|------------------------------------|
| Substitute Form PTO-1449<br>(Modified)<br><br><b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br><b>09850-013001</b> | Application No.<br><b>10051460</b> |
|  | Applicant<br><b>Robert A. Sanderson</b>                    |  |                                    |
|  | Filing Date<br><b>1/22/02</b>                              | Group Art Unit<br><b>3746</b>                |                                    |

| U.S. Patent Documents |           |               |            |          |       |          |                            |
|-----------------------|-----------|---------------|------------|----------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
| <i>CS</i>             | AA        | 6,053,091     | 04/25/2000 | Tojo     | 92    | 71       |                            |
|                       | AB        |               |            |          |       |          |                            |
|                       | AC        |               |            |          |       |          |                            |
|                       | AD        |               |            |          |       |          |                            |
|                       | AE        |               |            |          |       |          |                            |
|                       | AF        |               |            |          |       |          |                            |
|                       | AG        |               |            |          |       |          |                            |
|                       | AH        |               |            |          |       |          |                            |
|                       | AI        |               |            |          |       |          |                            |
|                       | AJ        |               |            |          |       |          |                            |
|                       | AK        |               |            |          |       |          |                            |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |             |    |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |
|   | AL        |                 |                  |                          |       |          |             |    |
|   | AM        |                 |                  |                          |       |          |             |    |
|   | AN        |                 |                  |                          |       |          |             |    |
|   | AO        |                 |                  |                          |       |          |             |    |
|   | AP        |                 |                  |                          |       |          |             |    |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |          |
|---|-----------|----------|
| Examiner Initial  | Desig. ID | Document |
|   | AQ        |          |
|   | AR        |          |
|   | AS        |          |
|   | AT        |          |

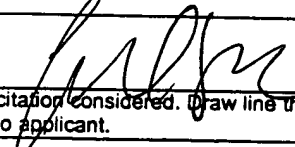
|  |                               |
|--|-------------------------------|
| Examiner Signature <i>[Signature]</i>  | Date Considered <b>3/4/02</b> |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                               |

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|--|--|--|-----------------------------|
| Substitute Form PTO-1449<br>(Modified)<br><br><b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>09850- 013001 | Application No.<br>10251466 |
|  | Applicant<br>Robert A. Sanderson                           |  |                             |
|  | Filing Date<br>1/22/02                                     | Group Art Unit<br>3746                 |                             |

| U.S. Patent Documents |           |               |            |          |       |          |                            |
|-----------------------|-----------|---------------|------------|----------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
| (37)                  | AA        | 5,542,382     | 08/06/96   | Clarke   | 122   | 51       |                            |
|                       | AB        |               |            |          |       |          |                            |
|                       | AC        |               |            |          |       |          |                            |
|                       | AD        |               |            |          |       |          |                            |
|                       | AE        |               |            |          |       |          |                            |
|                       | AF        |               |            |          |       |          |                            |
|                       | AG        |               |            |          |       |          |                            |
|                       | AH        |               |            |          |       |          |                            |
|                       | AI        |               |            |          |       |          |                            |
|                       | AJ        |               |            |          |       |          |                            |
|                       | AK        |               |            |          |       |          |                            |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |             |    |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |
| (37)  | AL        | DE 26 12 270    | 09/22/77         | Germany                  |       |          | x           |    |
|   | AM        |                 |                  |                          |       |          |             |    |
|   | AN        |                 |                  |                          |       |          |             |    |
|   | AO        |                 |                  |                          |       |          |             |    |
|   | AP        |                 |                  |                          |       |          |             |    |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |          |
|---|-----------|----------|
| Examiner Initial  | Desig. ID | Document |
|   | AQ        |          |
|   | AR        |          |
|   | AS        |          |
|   | AT        |          |

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|--|---------------------------|
| Examiner Signature<br>  | Date Considered<br>3/4/03 |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                           |

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Attorney's Docket No.  
09850-013001

Application No.

1,005,146.0

Applicant  
Robert A. Sanderson

Filing Date

1/22/02

Group Art Unit

3746

**U.S. Patent Documents**

| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee     | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|------------|--------------|-------|----------|----------------------------|
| CS               | AA        | 5,782,219     | 07/21/98   | Frey, et al. | 123   | 36.3     |                            |
|                  | AB        |               |            |              |       |          |                            |
|                  | AC        |               |            |              |       |          |                            |
|                  | AD        |               |            |              |       |          |                            |
|                  | AE        |               |            |              |       |          |                            |
|                  | AF        |               |            |              |       |          |                            |
|                  | AG        |               |            |              |       |          |                            |
|                  | AH        |               |            |              |       |          |                            |
|                  | AI        |               |            |              |       |          |                            |
|                  | AJ        |               |            |              |       |          |                            |
|                  | AK        |               |            |              |       |          |                            |

**Foreign Patent Documents or Published Foreign Patent Applications**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
| CS               | AL        | JP 09151840     | 06/10/97         | Japan                    |       |          | x           |    |
|                  | AM        |                 |                  |                          |       |          |             |    |
|                  | AN        |                 |                  |                          |       |          |             |    |
|                  | AO        |                 |                  |                          |       |          |             |    |
|                  | AP        |                 |                  |                          |       |          |             |    |

**Other Documents (Include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|----------|
|                  | AQ        |          |
|                  | AR        |          |
|                  | AS        |          |
|                  | AT        |          |

Examiner Signature

Date Considered

3/4/03

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449  
(MODIFIED)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

09850-013001

SERIAL NO.

10057460

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

APPLICANT

Robert A. Sanderson et al.

FILING DATE

1/22/02

GROUP

3746

(37 CFR 1.98(b))

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | PATENT NUMBER | ISSUE<br>DATE | PATENTEE         | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|---------------|---------------|------------------|-------|----------|-------------------------------|
| BS                  | AA | 5 7 6 2 0 3 9 | 06/09/98      | Gonzalez         | 123   | 197.3    |                               |
| BS                  | AB | 5 6 0 5 1 2 0 | 02/25/97      | Hedelin          | 123   | 78       |                               |
| BS                  | AC | 5 5 7 2 9 0 4 | 11/12/96      | Minculescu       | 74    | 45       |                               |
| BS                  | AD | 5 5 6 2 0 6 9 | 10/08/96      | Gillbrand et al. | 123   | 48       |                               |
| BS                  | AE | 5 5 3 5 7 0 9 | 07/16/96      | Yashizawa        | 123   | 63       |                               |
| BS                  | AF | 5 3 2 9 8 9 3 | 07/19/94      | Drangel et al.   | 123   | 78       |                               |
|                     | AG | 5 3 3 6 0 5 6 | 08/09/94      | Kimura et al.    | 417   | 222      |                               |
|                     | AH | 5 2 8 0 7 4 5 | 01/25/94      | Maruno           | 91    | 477      |                               |
|                     | AI | 5 2 6 1 3 5 8 | 11/16/93      | Rorke            | 123   | 47R      |                               |
|                     | AJ | 5 1 3 6 9 8 7 | 08/11/92      | Schechter et al. | 123   | 48       |                               |
|                     | AK | 5 0 9 4 1 9 5 | 03/10/92      | Gonzalez         | 123   | 58       |                               |
|                     | AL | 5 0 2 5 7 5 7 | 06/25/91      | Larsen           | 123   | 48       |                               |
|                     | AM | 5 0 0 7 3 8 5 | 04/16/91      | Kitaguchi        | 123   | 48       |                               |
|                     | AN | 4 9 2 0 8 5 9 | 05/01/90      | Smart et al.     | 91    | 497      |                               |
|                     | AO | 4 8 6 9 2 1 2 | 09/26/89      | Sverdlin         | 123   | 56       |                               |

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

|    |    | DOCUMENT NUMBER | PUBLICATION<br>DATE | COUNTRY OR<br>PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION |    |
|----|----|-----------------|---------------------|-----------------------------|-------|----------|-------------|----|
|    |    |                 |                     |                             |       |          | YES         | NO |
| BS | AP | 698,243         | 10/1940             | Germany                     | 123   | 56.1     |             | ✓  |
| BS | AQ | WO 92/11449     | 07/1992             | WIPO                        | 123   | 56.1     |             | ✓  |
| BS | AR | 2 566 460       | 12/1985             | France                      | 123   | 56.1     |             | ✓  |
|    | AS |                 |                     |                             |       |          |             |    |
|    | AT |                 |                     |                             |       |          |             |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

|  |    |  |
|--|----|--|
|  | AU |  |
|  | AV |  |

EXAMINER

*[Signature]*

DATE CONSIDERED

3/4/03

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449  
(MODIFIED)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

**09850-013001**

SERIAL NO.

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

APPLICANT  
Robert A. Sanderson et al.

(37 CFR 1.98(b))

FILING DATE 1/22/02

GROUP 3746

U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | PATENT NUMBER |   |   |   |   |   |   | ISSUE<br>DATE | PATENTEE          | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|---------------|---|---|---|---|---|---|---------------|-------------------|-------|----------|-------------------------------|
| <u>CS</u>           | AA | 5             | 6 | 3 | 4 | 8 | 5 | 2 | 6/3/97        | Kanamaru          | 464   | 138      | <u>2/28/00</u>                |
| <u>CS</u>           | AB | 5             | 5 | 5 | 3 | 5 | 8 | 2 | 9/10/96       | Speas             | 423   | 56.4     |                               |
| <u>CS</u>           | AC | 5             | 1 | 2 | 9 | 7 | 9 | 7 | 7/14/92       | Kanamuaru         | 417   | 500      | <u>8/21/91</u>                |
| <u>CS</u>           | AD | 5             | 1 | 1 | 3 | 8 | 0 | 9 | 5/19/92       | Ellenburg         | 123   | 58       |                               |
| <u>CS</u>           | AE | 5             | 0 | 2 | 7 | 7 | 5 | 6 | 7/2/91        | Shaffer           | 123   | 58       |                               |
| <u>CS</u>           | AF | 4             | 8 | 5 | 2 | 4 | 1 | 8 | 8/1/89        | Armstrong         | 74    | 60       |                               |
| <u>CS</u>           | AG | 4             | 7 | 0 | 8 | 0 | 9 | 9 | 11/24/87      | Ekker             | 123   | 54A      |                               |
| <u>CS</u>           | AH | 4             | 4 | 3 | 3 | 5 | 9 | 6 | 2/28/84       | Scalzo            | 74    | 839      |                               |
| <u>CS</u>           | AI | 4             | 2 | 3 | 5 | 1 | 1 | 6 | 11/25/80      | Meijer et al.     | 74    | 60       |                               |
| <u>CS</u>           | AJ | 4             | 1 | 7 | 8 | 1 | 3 | 5 | 12/11/79      | Roberts           | 417   | 222      |                               |
| <u>CS</u>           | AK | 4             | 1 | 7 | 4 | 6 | 8 | 4 | 11/20/79      | Roseby et al.     | 123   | 48       |                               |
| <u>CS</u>           | AL | 4             | 1 | 6 | 8 | 6 | 3 | 2 | 9/25/79       | Fokker            | 74    | 60       |                               |
| <u>CS</u>           | AM | 4             | 1 | 1 | 2 | 8 | 2 | 6 | 9/12/78       | Cataldo           | 92    | 13.1     |                               |
| <u>CS</u>           | AN | 4             | 0 | 6 | 6 | 0 | 4 | 9 | 1/3/78        | Teodorescu et al. | 123   | 48       |                               |
| <u>CS</u>           | AO | 3             | 9 | 6 | 8 | 6 | 9 | 9 | 7/13/76       | van Beukering     | 74    | 60       |                               |
| <u>CS</u>           | AP | 3             | 9 | 5 | 9 | 9 | 8 | 3 | 6/1/76        | Roberts et al.    | 62    | 226      |                               |
| <u>CS</u>           | AQ | 3             | 8 | 4 | 7 | 1 | 2 | 4 | 11/12/74      | Kramer            | 123   | 51       |                               |
| <u>CS</u>           | AR | 3             | 0 | 0 | 0 | 3 | 6 | 7 | 09/19/61      | Eagleson          | 123   | 53       |                               |

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

|           |    | DOCUMENT NUMBER | PUBLICATION<br>DATE | COUNTRY OR<br>PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION                         |    |
|-----------|----|-----------------|---------------------|-----------------------------|-------|----------|-------------------------------------|----|
|           |    |                 |                     |                             |       |          | YES                                 | NO |
| <u>CS</u> | AS | WO 97/10415     | 3/20/97             | PCT                         |       |          |                                     |    |
| <u>CS</u> | AT | DE 37 00 005 A1 | 7/14/88             | German                      |       |          | <input checked="" type="checkbox"/> |    |
| <u>CS</u> | AU | 62-113938       | 4/25/87             | Japan                       |       |          |                                     |    |
| <u>CS</u> | AV | 61-212656       | 9/20/86             | Japan                       |       |          |                                     |    |
| <u>CS</u> | AW | DE 29 31 377    | 2/26/81             | German                      |       |          |                                     |    |

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

|          |           |                 |               |
|----------|-----------|-----------------|---------------|
| EXAMINER | <u>CS</u> | DATE CONSIDERED | <u>3/4/03</u> |
|----------|-----------|-----------------|---------------|

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



SUBSTITUTE FORM PTO-1449  
(MODIFIED)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

**09850-013001**

SERIAL NO.

**10051460**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

(37 CFR 1.98(b))

FILING DATE

**1/22/02**

GROUP

**3/46**

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | PATENT NUMBER |   |   |   |   |   |   | ISSUE<br>DATE | PATENTEE       | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|---------------|---|---|---|---|---|---|---------------|----------------|-------|----------|-------------------------------|
| <b>CS</b>           | BA | 4             | 7 | 8 | 0 | 0 | 6 | 0 | 10/25/88      | Terauchi       | 417   | 222      |                               |
| <b>CS</b>           | BB | 4             | 5 | 6 | 9 | 3 | 1 | 4 | 02/11/86      | Milu           | 123   | 58       |                               |
| <b>CS</b>           | BC | 4             | 4 | 8 | 9 | 6 | 8 | 2 | 12/25/84      | Kenny          | 123   | 58       |                               |
| <b>CS</b>           | BD | 4             | 2 | 9 | 4 | 1 | 3 | 9 | 10/13/81      | Bex et al.     | 74    | 839      |                               |
| <b>CS</b>           | BE | 4             | 2 | 8 | 5 | 3 | 0 | 3 | 08/25/81      | Leach          | 123   | 51       |                               |
| <b>CS</b>           | BF | 4             | 2 | 0 | 8 | 9 | 2 | 6 | 06/24/80      | Hanson         | 74    | 191      |                               |
| <b>CS</b>           | BG | 4             | 2 | 0 | 3 | 3 | 9 | 6 | 05/20/80      | Berger         | 123   | 58       | <del>10/19/80</del>           |
| <b>CS</b>           | BH | 4             | 1 | 5 | 2 | 9 | 4 | 4 | 05/08/79      | Kemper         | 74    | 191      |                               |
| <b>CS</b>           | BI | 4             | 1 | 4 | 4 | 7 | 7 | 1 | 03/20/79      | Kemper et al.  | 74    | 60       |                               |
| <b>CS</b>           | BJ | 4             | 0 | 9 | 4 | 2 | 0 | 2 | 06/13/78      | Kemper         | 74    | 60       |                               |
| <b>CS</b>           | BK | 4             | 0 | 7 | 7 | 2 | 6 | 9 | 03/07/78      | Hodgkinson     | 74    | 60       |                               |
| <b>CS</b>           | BL | 4             | 0 | 1 | 1 | 8 | 4 | 2 | 03/97         | Davies et al.  | 123   | 61R      |                               |
| <b>CS</b>           | BM | 3             | 9 | 3 | 9 | 8 | 0 | 9 | 02/24/76      | Rohs           | 123   | 58       |                               |
| <b>CS</b>           | BN | 3             | 8 | 6 | 1 | 8 | 2 | 9 | 01/21/79      | Roberts et al. | 417   | 53       |                               |
| <b>CS</b>           | BO | 3             | 6 | 5 | 4 | 9 | 0 | 6 | 04/11/72      | Airas          | 123   | 43       |                               |

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

|  |    | DOCUMENT NUMBER | PUBLICATION<br>DATE | COUNTRY OR<br>PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION |    |
|--|----|-----------------|---------------------|-----------------------------|-------|----------|-------------|----|
|  |    |                 |                     |                             |       |          | YES         | NO |
|  | BP |                 |                     |                             |       |          |             |    |
|  | BQ |                 |                     |                             |       |          |             |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

|  |    |  |  |
|--|----|--|--|
|  | BR |  |  |
|  |    |  |  |
|  | BS |  |  |
|  |    |  |  |

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*Carl*

DATE CONSIDERED

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SUBSTITUTE FORM PTO-1449  
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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
09850-013001

SERIAL NO.  
10051460

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

APPLICANT  
Robert A. Sanderson et al.

(37 CFR 1.98(b))

FILING DATE  
1/12/02

GROUP  
3746

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | PATENT NUMBER | ISSUE<br>DATE | PATENTEE            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|---------------|---------------|---------------------|-------|----------|-------------------------------|
| AS                  | AA | 4 7 7 6 2 5 9 | 10/11/88      | Takai               | 92    | 71       |                               |
| AS                  | AB | 4 4 1 8 5 8 6 | 12/06/83      | Maki et al.         | 74    | 831      |                               |
| AS                  | AC | 4 2 9 7 0 8 5 | 10/27/81      | Brucken             | 417   | 222      |                               |
| AS                  | AD | 4 2 8 5 6 4 0 | 08/25/81      | Mukai               | 417   | 269      |                               |
| AS                  | AE | 4 2 7 0 4 9 5 | 06/02/81      | Freudenstein et al. | 123   | 54       |                               |
| AS                  | AF | 4 1 7 8 1 3 6 | 12/11/79      | Reid et al.         | 417   | 269      |                               |
| AS                  | AG | 3 5 2 8 3 1 7 | 09/15/70      | Cummins             | 74    | 598      |                               |
| AS                  | AH | 3 3 8 6 4 2 5 | 06/68         | Morsell             | 123   | 61R      |                               |
| AS                  | AI | 3 1 9 8 0 2 2 | 08/03/65      | Algor de Waern      | 74    | 60       |                               |
| AS                  | AJ | 3 1 8 2 6 4 4 | 05/65         | Drtna               | 123   | 56.1     |                               |
| AS                  | AK | 3 0 7 7 1 1 8 | 02/12/63      | Robbins             | 74    | 60       |                               |
| AS                  | AL | 3 0 7 6 3 4 5 | 02/05/63      | Leclercq            | 74    | 60       |                               |
| AS                  | AM | 2 6 5 3 4 8 4 | 09/29/53      | Zecher              | 74    | 40       |                               |

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

|    |    | DOCUMENT NUMBER | PUBLICATION<br>DATE | COUNTRY OR<br>PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION<br>YES NO |
|----|----|-----------------|---------------------|-----------------------------|-------|----------|-----------------------|
| AS | AN | DE 27 51 846    | 11/19/77            | Germany                     |       |          | abstract              |
| AS | AO | 1 037 799       | 12/01/58            | Germany                     |       |          | x                     |
| AS | AP | 1.015.857       | 10/27/52            | France                      |       |          | ✓                     |
| AS | AQ | 515359          | 12/18/30            | Germany                     |       |          | ✓                     |
| AS | AR | 89352           | 12/31/1895          | Germany                     |       |          | ✓                     |

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

|    |  |  |
|----|--|--|
| AS |  | Freudenstein, "Kinematic Structure of Mechanisms for Fixed and Variable-Stroke Axial-Piston Reciprocating Machines", Journal of Mechanisms, Transmissions, and Automation in Design, Vol. 106, pp. 355-363, 1984.  |
| AT |  | Freudenstein, "Development of an Optimum Variable-Stroke Internal-Combustion Engine Mechanism From the Viewpoint...", Journal of Mechanisms, Transmissions, and Automation in Design, Vol. 105, pp. 259-266, 1984. |
| AU |  |  |

EXAMINER

DATE CONSIDERED

3/4/03

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449  
(MODIFIED)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

09850-013001

SERIAL NO.

1005 1460

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

APPLICANT

Robert A. Sanderson et al.

(37 CFR 1.98(b))

FILING DATE

1/22/02

GROUP

3740

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | PATENT NUMBER |   |   |   |   |   |   | ISSUE<br>DATE | PATENTEE      | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|---------------|---|---|---|---|---|---|---------------|---------------|-------|----------|-------------------------------|
| EC                  | BA | 3             | 1 | 7 | 6 | 6 | 6 | 7 | 4/6/65        | Hammer        | 123   | 43       | —                             |
| EC                  | BB | 2             | 9 | 4 | 0 | 3 | 2 | 5 | 6/14/60       | Nakesch       | 74    | 60       | —                             |
| EC                  | BC | 2             | 9 | 1 | 0 | 9 | 7 | 3 | 11/3/59       | Witzky        | 123   | 48       | —                             |
| EC                  | BD | 2             | 2 | 6 | 3 | 5 | 6 | 1 | 11/25/41      | Biermann      | 74    | 60       | —                             |
| EC                  | BE | 2             | 2 | 5 | 6 | 0 | 7 | 9 | 9/16/41       | Dinzi         | 103   | 162      | —                             |
| EC                  | BF | 2             | 0 | 4 | 8 | 2 | 7 | 2 | 7/21/36       | Linthicum     | 103   | 173      | —                             |
| EC                  | BG | 2             | 0 | 4 | 2 | 7 | 3 | 0 | 6/2/36        | Redrup        | 123   | 190      | —                             |
| EC                  | BH | 1             | 9 | 6 | 8 | 4 | 7 | 0 | 7/31/34       | Szombathy     | 123   | 58       | —                             |
| EC                  | BI | 1             | 6 | 4 | 8 | 0 | 0 | 0 | 11/8/27       | Lee           |       |          | —                             |
| EC                  | BJ | 1             | 5 | 7 | 7 | 0 | 1 | 0 | 3/16/26       | Whatley       |       |          | —                             |
| EC                  | BK | 1             | 2 | 5 | 5 | 9 | 7 | 3 | 2/12/18       | Almen         |       |          | —                             |
| EC                  | BL | 1             | 2 | 1 | 0 | 6 | 4 | 9 | 1/2/17        | Holley et al. |       |          | —                             |
| EC                  | BM | 1             | 0 | 1 | 9 | 5 | 2 | 1 | 3/5/12        | Pratt         |       |          | —                             |
| EC                  | BN |               | 8 | 2 | 1 | 5 | 4 | 6 | 5/22/06       | Smallbone     |       |          | 5/22/06                       |
| EC                  | BO |               | 8 | 1 | 2 | 6 | 3 | 6 | 2/13/06       | Callan        |       |          | —                             |
| EC                  | BP |               |   |   |   |   |   |   |               |               |       |          | —                             |

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

|    |    | DOCUMENT NUMBER | PUBLICATION<br>DATE | COUNTRY OR<br>PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION |    |
|----|----|-----------------|---------------------|-----------------------------|-------|----------|-------------|----|
|    |    |                 |                     |                             |       |          | YES         | NO |
| EC | BQ | GB 2 030 254    | 10/3/78             | UK                          |       |          |             | —  |
| EC | BR | 55-37541        | 9/9/78              | Japan                       |       |          |             | —  |
| EC | BS | 1,416,219       | 9/20/65             | France                      |       |          |             | —  |
| EC | BT | 1 451 926       | 5/7/65              | German                      |       |          |             | —  |
| EC | BU | 461,343         | 12/26/13            | France                      |       |          |             | —  |

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

|   |                    |                 |        |
|---|--------------------|-----------------|--------|
| EXAMINER  | <i>[Signature]</i> | DATE CONSIDERED | 3/4/03 |
| EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                    |                 |        |

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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

09850-013001

SERIAL NO.

10051460

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

(37 CFR 1.98(b))

FILING DATE

1/22/02

GROUP

3746

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | PATENT NUMBER | ISSUE<br>DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|---------------|---------------|----------|-------|----------|-------------------------------|
| ES                  | CA | 2 5 3 2 2 5 4 | 11/28/50      | Bouchard | 74    | 60       | —                             |
| ES                  | CB | 2 5 1 3 0 8 3 | 06/27/50      | Eckert   | 74    | 60       | —                             |
| ES                  | CC | 2 4 6 5 5 1 0 | 10/23/44      | Bonnafé  | 103   | 162      | —                             |
| ES                  | CD | 1 7 7 2 9 7 7 | 08/30         | Arrighi  | 123   | 56.1     | —                             |
| ES                  | CE | 1 6 7 3 2 8 0 | 06/12/28      | Evans    |       |          | —                             |
| ES                  | CF | 1 6 5 9 3 7 4 | 05/05/23      | Robson   |       |          | —                             |
| ES                  | CG | 7 4 8 5 5 9   | 12/29/03      | Peet     |       |          |                               |
|                     | CH |               |               |          |       |          |                               |
|                     | CI |               |               |          |       |          |                               |
|                     | CJ |               |               |          |       |          |                               |
|                     | CK |               |               |          |       |          |                               |
|                     | CL |               |               |          |       |          |                               |

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

|  |    | DOCUMENT NUMBER | PUBLICATION<br>DATE | COUNTRY OR<br>PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION |    |
|--|----|-----------------|---------------------|-----------------------------|-------|----------|-------------|----|
|  |    |                 |                     |                             |       |          | YES         | NO |
|  | CN |                 |                     |                             |       |          |             |    |
|  | CN |                 |                     |                             |       |          |             |    |
|  | CO |                 |                     |                             |       |          |             |    |
|  | CP |                 |                     |                             |       |          |             |    |
|  | CQ |                 |                     |                             |       |          |             |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

|  |    |  |
|--|----|--|
|  | CR |  |
|  | CS |  |

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3/4/03

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Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
09850-013001

Application No.

1035140

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant  
Sanderson et al.

Filing Date

1/22/02

Group Art Unit

3746

**U.S. Patent Documents**

| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|------------|----------|-------|----------|----------------------------|
|                  | AA        |               |            |          |       |          |                            |
|                  | AB        |               |            |          |       |          |                            |
|                  | AC        |               |            |          |       |          |                            |
|                  | AD        |               |            |          |       |          |                            |
|                  | AE        |               |            |          |       |          |                            |
|                  | AF        |               |            |          |       |          |                            |
|                  | AG        |               |            |          |       |          |                            |
|                  | AH        |               |            |          |       |          |                            |
|                  | AI        |               |            |          |       |          |                            |
|                  | AJ        |               |            |          |       |          |                            |
|                  | AK        |               |            |          |       |          |                            |

**Foreign Patent Documents or Published Foreign Patent Applications**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation                         |                          |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------------------------------|--------------------------|
|                  |           |                 |                  |                          |       |          | Yes                                 | No                       |
| CS               | AL        | WO 99/14471     | 25.03.99         | PCT                      |       |          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|                  | AM        |                 |                  |                          |       |          |                                     |                          |
|                  | AN        |                 |                  |                          |       |          |                                     |                          |
|                  | AO        |                 |                  |                          |       |          |                                     |                          |
|                  | AP        |                 |                  |                          |       |          |                                     |                          |

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document   |
|------------------|-----------|--|
| CS               | AQ        | Den Hartog, J.P. (Jacob Pieter), "Problem 144" 1956 New York |
|                  | AR        |  |
|                  | AS        |  |
|                  | AT        |  |

Examiner Signature

Date Considered

3/4/02

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
09850- 013001

Application No.

100 51460

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant  
Sanderson et al.

Filing Date

1/22/52

Group Art Unit

3746

**U.S. Patent Documents**

| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|------------|----------|-------|----------|----------------------------|
|                  | AA        |               |            |          |       |          |                            |
|                  | AB        |               |            |          |       |          |                            |
|                  | AC        |               |            |          |       |          |                            |
|                  | AD        |               |            |          |       |          |                            |
|                  | AE        |               |            |          |       |          |                            |
|                  | AF        |               |            |          |       |          |                            |
|                  | AG        |               |            |          |       |          |                            |
|                  | AH        |               |            |          |       |          |                            |
|                  | AI        |               |            |          |       |          |                            |
|                  | AJ        |               |            |          |       |          |                            |
|                  | AK        |               |            |          |       |          |                            |

**Foreign Patent Documents or Published Foreign Patent Applications**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
| ES               | AL        | 121,961         | 01/08/20         | United Kingdom           |       |          |             |    |
| ES               | AM        | 345,813         | 07/25/17         | Germany                  |       |          |             | ✓  |
|                  | AN        |                 |                  |                          |       |          |             |    |
|                  | AO        |                 |                  |                          |       |          |             |    |
|                  | AP        |                 |                  |                          |       |          |             |    |

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document                                   |
|------------------|-----------|--|
| ES               | AQ        | PCT/US99/21125 International Search Report |
|                  | AR        |  |
|                  | AS        |  |
|                  | AT        |  |

Examiner Signature

Date Considered

3/1/03

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Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
09850-013001

Application No.

1005140

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

Applicant  
Sanderson et al.

Filing Date

1/24/03

Group Art Unit

3746

(37 CFR §1.98(b))

**U.S. Patent Documents**

| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|------------|----------|-------|----------|----------------------------|
| ES               | AA        | 5,890,462     | 04/06/99   | Bassett  | 123   | 56.2     | —                          |
|                  | AB        |               |            |          |       |          |                            |
|                  | AC        |               |            |          |       |          |                            |
|                  | AD        |               |            |          |       |          |                            |
|                  | AE        |               |            |          |       |          |                            |
|                  | AF        |               |            |          |       |          |                            |
|                  | AG        |               |            |          |       |          |                            |
|                  | AH        |               |            |          |       |          |                            |
|                  | AI        |               |            |          |       |          |                            |
|                  | AJ        |               |            |          |       |          |                            |
|                  | AK        |               |            |          |       |          |                            |

**Foreign Patent Documents or Published Foreign Patent Applications**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
| ES               | AL        | 1 595 600       | 08/12/81         | UK                       |       |          |             | Y  |
|                  | AM        |                 |                  |                          |       |          |             |    |
|                  | AN        |                 |                  |                          |       |          |             |    |
|                  | AO        |                 |                  |                          |       |          |             |    |
|                  | AP        |                 |                  |                          |       |          |             |    |

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|----------|
|                  | AQ        |          |
|                  | AR        |          |
|                  | AS        |          |
|                  | AT        |          |

Examiner Signature

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3/4/03

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ATTY. DOCKET NO.

09850-013001

SERIAL NO.

10051466

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

APPLICANT

Robert A. Sanderson et al.

FILING DATE

1/22/02

GROUP

3746

(37 CFR 1.98(b))

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | PATENT NUMBER | ISSUE<br>DATE | PATENTEE        | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|---------------|---------------|-----------------|-------|----------|-------------------------------|
| ES                  | AA | 3 6 5 4 9 0 6 | 04/11/72      | Airas           | 123   | 43       | —                             |
| ES                  | AB | 4 1 0 0 8 1 5 | 07/18/78      | Kemper          | —     | —        | —                             |
| ES                  | AC | 5 0 0 2 4 6 6 | 03/26/91      | Inagaki et al.  | 417   | 222      | —                             |
| ES                  | AD | 5 2 0 1 2 6 1 | 04/13/93      | Kayukawa et al. | 92    | 71       | —                             |
| ES                  | AE | 5 4 3 7 2 5 1 | 08/01/95      | Anglim et al.   | 123   | 56.3     | —                             |
| ES                  | AF | 5 5 9 6 9 2 0 | 01/28/97      | Umemura et al.  | 92    | 71       | —                             |
| ES                  | AG | 5 6 3 0 3 5 1 | 05/20/97      | Clucas          | 92    | 12.2     | —                             |
| ES                  | AH | 5 6 9 9 7 1 6 | 12/23/97      | Ota et al.      | 417   | 269      | —                             |
| ES                  | AI | 5 7 6 8 9 7 4 | 06/23/98      | Ikeda et al.    | 92    | 71       | —                             |
| ES                  | AJ | 5 7 8 5 5 0 3 | 07/28/98      | Ota et al.      | 47    | 269      | —                             |
| ES                  | AK | 5 8 3 9 3 4 7 | 11/24/98      | Nomura et al.   | 92    | 12.2     | —                             |

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

|    | DOCUMENT NUMBER | PUBLICATION<br>DATE | COUNTRY OR<br>PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION |
|----|-----------------|---------------------|-----------------------------|-------|----------|-------------|
|    |                 |                     |                             |       |          | YES NO      |
| AL |                 |                     |                             |       |          |             |
| AM |                 |                     |                             |       |          |             |
| AN |                 |                     |                             |       |          |             |
| AO |                 |                     |                             |       |          |             |
| AP |                 |                     |                             |       |          |             |

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

|    |  |  |
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| AG |  |  |
| AR |  |  |
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EXAMINER

*[Signature]*

DATE CONSIDERED

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)ATTY. DOCKET NO.  
09850-013001SERIAL NO.  
0051460APPLICANT  
Robert A. Sanderson et al.FILING DATE  
1/22/02GROUP  
3744

(37 CFR 1.98.b))

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | PATENT NUMBER |   |   |   |   |   |   | ISSUE<br>DATE | PATENTEE      | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|---------------|---|---|---|---|---|---|---------------|---------------|-------|----------|-------------------------------|
| 31                  | BA | 5             | 8 | 9 | 4 | 7 | 8 | 2 | 04/20/99      | Nissen et al. | 02    | 12.2     | —                             |
| 32                  | BB | 5             | 8 | 9 | 7 | 2 | 9 | 8 | 04/27/99      | Umemura       | 02    | 22.2     | —                             |
|                     | BC |               |   |   |   |   |   |   |               |               |       |          |                               |
|                     | BD |               |   |   |   |   |   |   |               |               |       |          |                               |
|                     | BE |               |   |   |   |   |   |   |               |               |       |          |                               |
|                     | BF |               |   |   |   |   |   |   |               |               |       |          |                               |
|                     | BG |               |   |   |   |   |   |   |               |               |       |          |                               |
|                     | BH |               |   |   |   |   |   |   |               |               |       |          |                               |
|                     | BI |               |   |   |   |   |   |   |               |               |       |          |                               |
|                     | BJ |               |   |   |   |   |   |   |               |               |       |          |                               |
|                     | BK |               |   |   |   |   |   |   |               |               |       |          |                               |

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

|  |    | DOCUMENT NUMBER | PUBLICATION<br>DATE | COUNTRY OR<br>PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION |    |
|--|----|-----------------|---------------------|-----------------------------|-------|----------|-------------|----|
|  |    |                 |                     |                             |       |          | YES         | NO |
|  | BL |                 |                     |                             |       |          |             |    |
|  | BM |                 |                     |                             |       |          |             |    |
|  | BN |                 |                     |                             |       |          |             |    |
|  | BO |                 |                     |                             |       |          |             |    |
|  | BP |                 |                     |                             |       |          |             |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

|  |    |  |  |  |  |  |  |  |
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|  | BQ |  |  |  |  |  |  |  |
|  | BR |  |  |  |  |  |  |  |
|  | BS |  |  |  |  |  |  |  |

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DATE CONSIDERED

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|  |  |                                       |                             |
|--|--|---------------------------------------|-----------------------------|
| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>09850-013001 | Application No.<br>10251460 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br>Sanderson et al.         |                             |
|  |  | Filing Date<br>1/22/02                | Group Art. Unit<br>3746     |

## U.S. Patent Documents

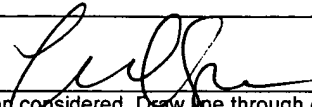
| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee      | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|------------|---------------|-------|----------|----------------------------|
| ES               | AA        | 15,442        | 09/05/22   | Almen         |       |          |                            |
| ES               | AB        | 3,969,046     | 07/13/76   | Wynn          | 417   | 517      |                            |
| ES               | AC        | 3,974,714     | 08/17/76   | Fritsch       | 74    | 571      |                            |
| ES               | AD        | 4,060,178     | 11/29/77   | Miller        | 417   | 14       |                            |
| ES               | AE        | 4,231,724     | 11/04/80   | Hope et al.   | 417   | 472      |                            |
| ES               | AF        | 4,236,881     | 12/02/80   | Pfleger       | 417   | 502      |                            |
| ES               | AG        | 4,323,333     | 04/06/82   | Apter et al.  | 417   | 63       |                            |
| ES               | AH        | 4,349,130     | 09/14/82   | Bair          | 222   | 124.2    |                            |
| ES               | AI        | 4,545,507     | 10/08/85   | Barall        | 222   | 137      |                            |
| ES               | AJ        | 4,715,791     | 12/29/87   | Berlin et al. | 417   | 274      |                            |
| ES               | AK        | 4,811,624     | 03/14/89   | Fritsch       | 74    | 571      |                            |
| ES               | AL        | 4,941,809     | 07/17/90   | Pinkerton     | 417   | 500      |                            |
| ES               | AM        | 5,044,889     | 09/03/91   | Pinkerton     | 417   | 53       |                            |
| ES               | AN        | 5,088,902     | 02/18/92   | Marioni       | 417   | 115      |                            |
| ES               | AO        | 5,154,589     | 10/13/92   | Ruhl et al.   | 417   | 446      |                            |
| ES               | AP        | 5,405,252     | 04/11/95   | Nikkamen      | 417   | 478      |                            |
| ES               | AQ        | 6,012,903     | 01/11/00   | Boelkins      | 417   | 63       |                            |
| ES               | AR        | 6,065,433     | 05/23/00   | Hill          | 123   | 73       |                            |

## Foreign Patent Documents or Published Foreign Patent Applications

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
|                  | AS        |                 |                  |                          |       |          |             |    |
|                  | AT        |                 |                  |                          |       |          |             |    |

## Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document   |
|------------------|-----------|--|
| ES               | AU        | Metering Pumps, LEWA modular®, American Lewa, The Technology Advantage                   |
| ES               | AV        | Advanced diaphragm metering pump technology for lower pressure applications, LEWAecodos® |
|                  | AW        |  |

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| Examiner Signature<br>  | Date Considered<br>3/4/03 |
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PATENT & TRADEMARK OFFICE

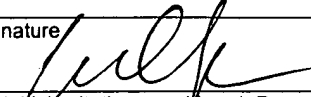
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|--|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)<br><br><b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>09850-013001 | Application No.<br>10/051,460 |
|  | Applicant<br>Sanderson et al.                              |                                       |                               |
|  | Filing Date<br>January 22, 2002                            | Group Art Unit<br>3746                |                               |

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| U.S. Patent Documents |           |               |            |          |       |          |                            |
|-----------------------|-----------|---------------|------------|----------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
| BS                    | AA        | 4,491,057     | 01/01/85   | Ziegler  | 91    | SV3      | Aug/3/82                   |
|                       | AB        |               |            |          |       |          |                            |
|                       | AC        |               |            |          |       |          |                            |
|                       | AD        |               |            |          |       |          |                            |
|                       | AE        |               |            |          |       |          |                            |
|                       | AF        |               |            |          |       |          |                            |
|                       | AG        |               |            |          |       |          |                            |
|                       | AH        |               |            |          |       |          |                            |
|                       | AI        |               |            |          |       |          |                            |
|                       | AJ        |               |            |          |       |          |                            |
|                       | AK        |               |            |          |       |          |                            |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                                       |       |          |             |    |
|---|-----------|-----------------|------------------|---------------------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office              | Class | Subclass | Translation |    |
|   |           |                 |                  |                                       |       |          | Yes         | No |
| BS  | AL        | 60-164677       | 08/27/85         | Japan (with full English Translation) |       |          | X           |    |
| BS  | AM        | WO 91/02889     | 03/07/91         | PCT                                   |       |          |             |    |
|   | AN        |                 |                  |                                       |       |          |             |    |
|   | AO        |                 |                  |                                       |       |          |             |    |
|   | AP        |                 |                  |                                       |       |          |             |    |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |          |
|---|-----------|----------|
| Examiner Initial  | Desig. ID | Document |
|   | AQ        |          |
|   | AR        |          |
|   | AS        |          |
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| Examiner Signature<br>  | Date Considered<br>3/4/03 |
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Sheet 1 of 1

|   |  |  |                                      |
|---|--|--|--------------------------------------|
| Substitute Form PTO-1449<br>(Modified)  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br><b>09850-013001</b> | Application No.<br><b>10/051,460</b> |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |  | Applicant<br><b>Sanderson et al.</b>         |                                      |
| (37 CFR §1.98(b))   |  | Filing Date<br><b>January 22, 2002</b>       | Group Art Unit<br><b>3745 3746</b>   |

| U.S. Patent Documents |           |               |            |          |       |          |                            |
|-----------------------|-----------|---------------|------------|----------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
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|                       | AB        |               |            |          |       |          |                            |
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|                       | AF        |               |            |          |       |          |                            |
|                       | AG        |               |            |          |       |          |                            |
|                       | AH        |               |            |          |       |          |                            |
|                       | AI        |               |            |          |       |          |                            |
|                       | AJ        |               |            |          |       |          |                            |
|                       | AK        |               |            |          |       |          |                            |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |             |    |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |
| <b>(ZS)</b>   | AL        | EP 0052387 ✓    | 10/19/1981       | European                 |       |          | X           |    |
| <b>(Z)</b>  | AM        | 1,450,354 ✓     | 07/18/1966       | France                   |       |          | X           |    |
|   | AN        |                 |                  |                          |       |          |             |    |
|   | AO        |                 |                  |                          |       |          |             |    |
|   | AP        |                 |                  |                          |       |          |             |    |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |          |
|---|-----------|----------|
| Examiner Initial  | Desig. ID | Document |
|   | AQ        |          |
|   | AR        |          |
|   | AS        |          |
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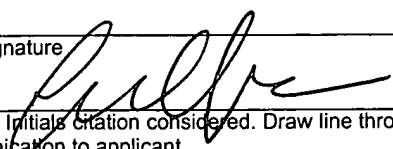
TECHNOLOGY CENTER R3700

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|--|----------------------------------|
| Examiner Signature<br>   | Date Considered<br><b>3/9/05</b> |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                                  |

| Substitute Form PTO-1449<br>(Modified)   |           | U.S. Department of Commerce<br>Patent and Trademark Office |            | Attorney's Docket No.<br>09850-013001 |       | Application No.<br>10/051,460 |                            |
|--|-----------|--|------------|---------------------------------------|-------|-------------------------------|----------------------------|
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |           |  |            | Applicant<br>Sanderson et al.         |       | Group Art Unit<br>3746        |                            |
|  |           |  |            | Filing Date<br>January 22, 2002       |       |                               |                            |
| <b>U.S. Patent Documents</b>   |           |  |            |                                       |       |                               |                            |
| Examiner Initial   | Desig. ID | Patent Number  | Issue Date | Patentee                              | Class | Subclass                      | Filing Date If Appropriate |
| (ZS)   | AA        | 4,174,684  | 11/20/1979 | Roseby et al.                         | 123   | 48                            |                            |
| (ZS)   | AB        | 4,729,717  | 03/08/1988 | Gupta                                 | 47    | 5                             |                            |
| (ZS)   | AC        | 5,102,306  | 04/07/1992 | Liu                                   | 417   | 415                           |                            |
| (ZS)   | AD        | 6,074,174  | 06/13/2000 | Lynn et al.                           | 412   | 415                           |                            |
|  | AE        |  |            |                                       |       |                               |                            |
|  | AF        |  |            |                                       |       |                               |                            |
|  | AG        |  |            |                                       |       |                               |                            |
|  | AH        |  |            |                                       |       |                               |                            |
|  | AI        |  |            |                                       |       |                               |                            |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |             |    |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |
|   | AJ        |                 |                  |                          |       |          |             |    |
|   | AK        |                 |                  |                          |       |          |             |    |
|   | AL        |                 |                  |                          |       |          |             |    |
|   | AM        |                 |                  |                          |       |          |             |    |
|   | AN        |                 |                  |                          |       |          |             |    |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |          |
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| Examiner Initial  | Desig. ID | Document |
|   | AO        |          |
|   | AP        |          |
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